

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

<i>In re</i> Application of)	
)	Group Art Unit: TBA
Michael L. VAZQUEZ <i>et al.</i>)	
)	Examiner: TBA
Serial No. TBA)	
)	Atty. Docket 101765.00142 (2705/17/cont.)
Filed: August 4, 2003)	

For: α - AND β -AMINO ACID HYDROXYETHYLAMINO SULFONAMIDES USEFUL AS RETROVIRAL
PROTEASE INHIBITORS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, enclosed is form PTO-1449 listing documents for consideration by the Examiner during the prosecution of the above-captioned patent application. With the exception of U.S. Patent Nos. 6,500,832; 6,472,407; 6,534,493; and 6,455,581, these documents were previously listed in an Information Disclosure Statement in the parent application of Serial No. 10/157,019, filed May 30, 2002, which is relied on for an earlier effective filing date under 35 U.S.C. § 120. Therefore, except for the above-identified U.S. patents, copies of these documents are not being submitted herewith, in accordance with 37 C.F.R. § 1.98(d).

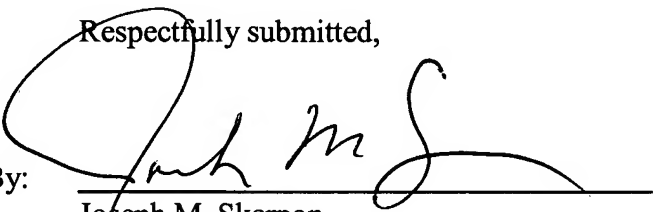
Applicants respectfully request that the Examiner consider and enter all the documents cited on the enclosed PTO-1449 Forms into the file of the above-identified application.

Applicants also request an indication of the same by return of the PTO-1449 Forms being initialed and dated by the Examiner.

It is believed that no fee is due for this submission, as it is being provided within the time period specified under 37 C.F.R. § 1.97(b)(1). However, if a fee is required, please charge our Deposit Account No. 19-0733.

Respectfully submitted,

By:


Joseph M. Skerpon
Registration No. 29,864

Date: August 4, 2003

BANNER & WITCOFF, LTD.
1001 G Street, NW
Washington, DC 20001
202-824-3000

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 7

Complete if Known

Application Number	TBA
Filing Date	August 4, 2003
First Named Inventor	Michael L. Vazquez
Group Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	101765.00142 (2705/17/Cont.)

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- 5,843,946	12/1/1998	Vazquez et al.	
		US- 6,060,476	5/9/2000	Vazquez et al.	
		US- 5,968,942	10/19/1999	Vazquez et al.	
		US- 6,046,190	4/4/2000	Vazquez et al.	
		US- 5,786,483	7/28/1998	Vazquez et al.	
		US- 6,172,082	1/9/2001	Vazquez et al.	
		US- 5,830,897	11/3/1998	Vazquez et al.	
		US- 5,744,481	4/28/1998	Vazquez et al.	
		US- 6,248,775	6/19/2001	Vazquez et al.	
		US- 6,335,460	1/1/2002	Vazquez et al.	
		US- 6,417,387	7/9/02	Vazquez et al.	
		US- 6,500,832	12/31/02	Vazquez et al.	
		US- 6,472,407	10/29/02	Vazquez et al.	
		US- 6,534,493	3/18/03	Vazquez et al.	
		US- 6,455,581	9/24/02	Vazquez et al.	
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number	TBA
Filing Date	August 4, 2003
First Named Inventor	Michael L. Vazquez
Group Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	101765.00142 (2705/17/Cont.)

Sheet	2	of	7
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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Examiner Signature		Date Considered	
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¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT 3 of 7	ATTY. DOCKET NO. 101765.00142 (2705/17/Cont)	SERIAL NUMBER TBA
	APPLICANT(s): Vazquez, et. al.	
	FILING DATE August 4, 2003	GROUP ART UNIT TBA

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	ISSUE DATE	NAME	CLAS S	SUB CLASS	FILING DATE
	4,826,815	05/02/89	Luly et al.	514	19	
	5,585,397	12/17/96	Tung et al.	514	473	
	4,599,198	07/08/86	Hoover	260	998.2	26 Sep 1985
	SIR H725	01/02/90	Gordon	548	533	26 Feb 1987
	4,514,391	04/30/85	Gordon et al	514	2	21 Jul 1983
	4,450,164	05/22/84	Bristol et al	424	256	20 Dec 1982
	4,477,441	10/16/84	Boger et al.	424	177	14 Sep 1983
	4,548,926	10/22/85	Matsueda et al	514	19	7 Jun 1984
	4,616,088	10/07/86	Ryono et al	546	336	14 Dec 1984
	4,668,769	05/26/87	Hoover	530	331	12 Aug 1985
	4,668,770	05/26/87	Boger et al	530	331	8 May 1984
	4,757,050	07/12/88	Natarajan et al	514	18	28 Aug 1987
	4,880,938	11/14/89	Freidinger	548	492	16 Jun 1986
	4,963,530	10/16/90	Hemmi et al	514	19	21 Mar 1988
	4,977,277	12/11/90	Rosenberg et al	549	215	5 Jun 1989

EXAMINER	DATE CONSIDERED
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.	

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT 4 of 7	ATTY. DOCKET NO. 101765.00142 (2705/17/Cont.)	SERIAL NUMBER TBA
	APPLICANT(s): M. Vazquez et al.	
	FILING DATE August 4, 2004	GROUP ART UNIT TBA

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO	
	0 346 847	12/20/89	EP	C07D	207/10		
	0 342 541	11/23/89	EP	C07K	5/02		
	2 184 730	07/01/87	UK	C07K	5/00		
	2 209 752	08/24/89	GB	C07C	103/30		
	0 264 795	04/27/88	EP	C07K	5/00		
	2 200 115	07/27/88	GB	C07C	103/00		
	WO84/03044	08/16/84	PCT	A61K	37/64		
	AU-A-79823/87	04/28/88	Australia	C07K	005/06		
	104,041	03/03/84	Europe	C07C	103/52		
	114,993	06/06/84	Europe	C07C	103/52		
	172,347	02/26/86	Europe	C07K	5/00		
	223,437	05/27/87	Europe	C07K	5/00		
	337,714	10/18/89	Europe	C07K	5/02		
	WO94/05639	03/17/94	Europe	C07D	215/48		
	356,223	02/28/90	Europe	C07K	37/64		
	389,898A2	10/03/90	Europe	C07K	5/02		
	393,445	10/24/90	Europe	A61K	37/64		
	393,457	10/24/90	Europe	C07K	005/06		
	402,646	12/19/90	Europe	C07D	213/40		
	468,641	01/29/92	Europe	C07D	5/02		
	92/08699	05/29/92	PCT/WO	C07D	215/48		
	94/04492	03/03/94	PCT/WO	C07C	311/29		

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT 5 of 7	ATTY. DOCKET NO. 101765.00142(2705/17/Cont.)	SERIAL NUMBER TBA
	APPLICANT(s): M. Vazquez et al.	
	FILING DATE August 4, 2003	GROUP ART UNIT TBA

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Roberts et al, "Rational Design of Peptide-based Proteinase Inhibitors," <u>Science</u> , 248, 358 (1990).
	Erickson et al, "Design Activity and 2.8Å Crystal Structure of a C ₂ Symmetric Inhibitor Complexed to HIV-1 Protease," <u>Science</u> , 249 527 (1990)
	Pearl et al, "Sequence specificity of retroviral proteases," <u>Nature</u> , 328 (1987)
	Martin, <u>Drugs of the Future</u> , 16(3), 210-212 (1991)
	Meek et al, <u>Letter to Nature</u> , 343, 90-92 (1990)
	McQuade et al, "A Synthetic HIV-1 Protease Inhibitor with Antiviral Activity Arrests HIV-like Particle Maturation," <u>Science</u> , 247, 454-456 (1990)
	Rich et al, "Peptide Inhibitors of Proteases," <u>Design of Protease Inhibitors</u> 511-520 (1984)
	Rosenberg et al <u>J. Med. Chem.</u> , 30, 1224-1228 (1987)

EXAMINER	DATE CONSIDERED
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.	

USPTO Form 1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE CITATION				Attorney Docket No. 101765.00142(2705/17/Cont.)		Serial No. TBA	
Sheet 6 of 7				Applicant(s): <i>Vazquez et al.</i>			Filing Date: August 4, 2003
Group: TBA							

U.S. PATENT DOCUMENTS							
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
		5,856,353	Jan. 1999	Tung et al.	514	473	
		5,723,490	March 1998	Tung	514	478	
		5,977,137	Nov. 1999	Tung et al.	514	312	

FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		

EXAMINER	DATE CONSIDERED
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** Copies of references not provided at the time of this submission.

INFORMATION DISCLOSURE

CITATION

7 of 7

~~101765.00142(2705/17/Cont)~~

TBA

Applicant(s): Vazquez, et al.

Filing Date: August 4, 2003

Expected Group:
...TBA

U.S. PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	5,843,946	12/1/98	Vazquez et al.	514	252	8/24/93

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

[illegible]

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²²Copies of references not provided at the time of this submission.